Power generation targets

†3664. MS. SUSHILA TIRIYA: Will the Minister of POWER be pleased to state:

(a) the target fixed by Government for power generation during the Tenth Five Year Plan;

(b) the position of power generation during that period;

(c) whether Government proposes to fix the target of power generation for the Eleventh Five Year Plan;

(d) if so, the details thereof;

(e) whether Government has made any plan to maintain balance between demand and supply; and

(f) if so, the details thereof?

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRI JAIRAM RAMESH): (a) to (d) The target for power generation is decided on a year to year basis. The details of actual power generation *vis-a vis* the year-wise target fixed during the 10th Plan are given below:

(Figures in Billion Unit)

Year:	2002-03	2003-04	2004-05	2005-06	2006-07
Target:	545.5	572.9	586.4	621.5	663.0
Actual Generation:	531.7	558.3	587.4	617.5	662.5
Achievement (%):	97.4	97.5	100.2	99.4	99.9

(c) and (d) While a generation target of 710 Billion Unit was fixed for 2007-08, the target for 2008-09 is 774.3 Billion Unit.

(e) to (f) The steps taken/being taken to improve the power supply position in the country include augmentation of generating capacity by over 78,577 MW during the 11th Plan, development of Ultra Mega Power Projects of 4,000 MW capacity each, improving performance of existing power stations, renovation, modernization and life extension of old and inefficient generating units, harnessing surplus captive power into the grid, strengthening inter-state and inter-regional transmission capacity for optimum utilization of available power, promoting demand side management, energy efficiency and energy conservation measures and import of power from Bhutan.

Power projects under construction

3665. SHRI MATILAL SARKAR: Will the Minister of POWER be pleased to state:

(a) the names of the power projects now under construction by both the Government and the private enterprises in different States and UTs;

(b) the names of these projects which have crossed the targeted period of completion; and

(c) the reasons for such unusual delay and the remedy prescribed therefor?

†Original notice of the question was received in Hindi.

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRI JAIRAM RAMESH): (a) As on 24.4.2008, a total generation capacity of 9513 MW has commissioned during 11th Plan so far. In addition, 123 generation projects of 69017.4 MW capacity are under construction in the country. Of this, 119 generation projects of 62597.4 MW capacity are envisaged to be commissioned in 11th Plan, while 4 generation projects of 6420 MW capacity are likely to be commissioned in 12th Plan. Project-wise details are given in Statement-I (*See* below)

(b) 28 generation projects of 8191.2 MW capacity have crossed their targeted period of completion and are under construction. The names of these projects are given in Statement-II (*See* below)

(c) The reasons for delays in timely execution of the projects include:

(i) Delay in supply of material

(ii) Delay in award of works

(iii) Inadequate deployment of erection manpower and commissioning experts

(iv) Inadequate mobilization of construction machinery by executive agencies

(v) Non availability of gas for gas based power projects

(vi) Geological surprises in case of hydro projects

The steps taken for timely commissioning of 11th Plan generation projects include:-

Ministry of Power has been actively interacting and monitoring, through meeting/ discussions with the State Governments, BHEL as well as State Power Utilities for giving an impetus to various measures *inter-alia* the capacity addition. The capacity addition programme was discussed in the Chief Secretaries' Conference held on 23rd-24th April, 2007 and Chief Ministers' conference held on 28th May, 2007 wherein *inter-alia* early placement of orders for power projects proposed to be commissioned during the 11th Plan was emphasized. In the Chief Ministers' conference, it was resolved that the Centre and State would ensure timely placement of orders for all the projects intended to give benefit during the 11th Plan and ensure regular monthly projects monitoring for their timely commissioning along pre-determined milestones. A meeting of Group of Ministers chaired by Minister of Power was held on 24th September, 2007 wherein detailed State-wise discussions were held with regard to accelerated power generation capacity addition for the 11th Plan. Subsequently, a follow-up meeting of Chief Secretaries of States was held on 19th February, 2008 wherein expeditious completion of ordering of all the 11th Plan power generation projects was emphasized. This matter was again discussed in the Chief Secretaries' conference convened on 22nd April, 2008. A Task Force on Hydro Development headed by Union Minister of Power has been constituted, hydro policy has been notified to attract private investments also.

According to information received from Bharat Heavy Electricals Limited (BHEL), it has enhanced its capacity to deliver 10,000 MW of main plant equipment per annum. Furthermore, they have put in place an action plan to enhance capacity to deliver 15,000 MW per annum by December, 2009.

A joint Venture Agreement has been signed between NTPC Ltd. and BHEL to take up work related to Engineering, Procurement and Construction (EPC) for power plants and other infrastructure projects. NTPC Ltd. has also entered into an MoU with Bharat Forge Limited to promote a joint venture company initially to take up the manufacture of castings, forgings, fittings and high pressure pipings.

All stakeholders have been sensitized towards enlarging the vendor base so as to meet the Balance of Plants (BoP) requirements.

To address the issue of shortage of manpower, Ministry of Power has taken 'Adopt an Industrial Training Institute (ITI)' initiative and power project developers have been asked to adopt an ITI in the vicinity of the project area to build the skilled and semi-skilled work force required for the projects.

The monitoring mechanism has been made more robust. The Central Electricity Authority has got a nodal official associated with each on-going project who continuously monitors the progress at site through frequent visits and continuous interaction. Steps have been taken to operationalize a Power Project Monitoring Panel (PPMP).

Statement-I

Details of Generation Projects under construction in the country

A. Thermal Projects under Construction.

Sl. No.	Name of Project	Sector	Capacity in MW	Year
1	2	3	4	5
1.	**Projects to be Commissioned in 11th Plan**			
2.	Simhadri STPP Extn.	Central	2x500	2010-11
				2011-12
3.	Bongoigaon TPP	Central	3x250	2010-11
				2011-12
				2011-12
4.	Barh STPP-I	Central	3x660	2009-10
				2010-11
				2010-11
5.	Kahalgaon St-2, Ph-2	Central	500	2008-09
6.	Nabi nagar TPP (JV of NTPC & RLY)	Central	2x250	2010-11
				2011-12
				2011-12
7.	Bhilai TPP Ph-I	Central	250	2008-09
8.	Korba STPP	Central	500	2009-10
9.	Sipat-2	Central	500	2008-09
10.	Sipat-I	Central	3X660	2008-09
				2009-10
				2009-10

1	2	3	4	5
11.	Indira Gandhi TPP	Central	3X500	2010-11
				2010-11
				2010-11
12.	Chandrapura TPS Ext	Central	2X250	2008-09
				2008-09
13.	Kodarma TPP	Central	2X500	2010-11
				2010-11
14.	Maithon RBC	Central	2X525	2010-11
				2010-11
15.	Barsingsar Lignite	Central	2X125	2008-09
				2008-09
16.	Neyveli TPS-II Exp.	Central	2X250	2009-10
				2009-10
17.	Vallur TPP	Central	2X500	2010-11
				2011-12
18.	National Capital Power Project St-2	Central	2X490	2009-10
				2010-11
19.	Durgapur Steep TPS	Central	2X500	2010-11
				2010-11
20.	Farakka STPS St-3	Central	500	2010-11
21.	Mejia Extn	Central	2X500	2009-10
				2009-10
22.	Raghunathpur TPP	Central	2X600	2010-11
				2010-11
State Sector				
1.	Kakatiya TPP Andhra Pradesh (AP)	State	500	2009-10
2.	Kothagudem TPP Extn. (AP)	State	500	2009-10
3.	Rayalseema St-III (AP)	State	210	2009-10
4.	Vijayawada TPP-IV (AP)	State	500	2008-09
5.	Lakwa Waste Heat, Assam	State	37.2	2009-10
6.	Korba West St-III., Chhattisgarh	State	500	2011-12
7.	Marwa TPP, Chhattisgarh	State	2X500	2011-12
				2011-12
8.	Hazira CCPP Extn., Gujarat	State	351	2010-11
9.	Kutch Lignite TPS Extn, Gujarat	State	75	2008-09
10.	Pipavav CCPP, Gujarat	State	2X351	2010-11
				2010-11
11.	Sikka TPP Extn., Gujarat	State	2X250	2009-10
				2010-11
12.	Surat Lignite TPP Extn, Gujarat	State	2X125	2008-09
				2008-09

1	2	3	4	5
13.	Ukai TPP Extn., Gujarat	State	490	2010-11
14.	Utran CCPP Extn, Gujarat	State	374	2009-10
15.	Rajiv Gandhi TPS, Hissar, Haryana	State	2X600	2009-10
				2009-10
16.	Bellary TPP St-II, Karnatka	State	500	2010-11
17.	Raichur U-8 Karnatka	State	250	2009-10
18.	Bhusawal Extn., Maharashtra	State	2X500	2010-11
				2010-11
19.	Khaperkheda Extn. Maharashtra	State	500	2010-11
20.	New Parli Extn. St-II, Maharashtra	State	250	2009-10
21.	Paras TPS Extn., Maharashtra	State	250	2009-10
22.	Amarkantak TPS Extension, Madhya Pradesh	State	210	2008-09
23.	Satpura TPP Extn, Madhya Pradesh	State	2X250	2010-11
				2011-12
24.	Guru Har Govind TPS-II, Punjab	State	250	2008-09
25.	Chhabra TPS, Rajasthan	State	2X250	2008-09
				2008-09
26.	Giral Lignite-II, Rajasthan	State	125	2008-09
27.	Kota TPP, Rajasthan	State	195	2008-09
28.	Suratgarh TPP, Rajasthan	State	250	2008-09
29.	North Chennai Extn, Tamilnadu	State	600	2011-12
30.	Valuthur CCPP Extn., Tamilnadu	State	92.2	2008-09
31.	Anpara D, Uttar Pradesh	State	2X500	2011-12
				2011-12
32.	Harduaganj Ext, Uttar Pradesh	State	2X250	2009-10
				2009-10
33.	Parichha Extn, Uttar Pradesh	State	2X250	2009-10
				2009-10
34.	Bakereshwar TPS, West Bengal	State	210	2008-09
35.	Sagardighi TPP, West Bengal	State	300	2008-09
36.	Santaldih TPP Extn Ph-2, West Bengal	State	250	2009-10
Private Sector				
1.	Gautami CCPP, Andhra Pradesh (GT1+GT2+ST)	Private	2X145+174	2008-09
				2008-09
				2008-09
2.	Konaseema CCPP, Andhra Pradesh, (GT1+GT2+ST)	Private	2X140+165	2008-09
				2008-09
				2008-09

1	2	3	4	5
3.	Lanco Amarkantak, TPS Ph-1, Chhattisgarh	Private	2X300	2008-09
				2009-10
4.	O.P. Jindal STPP Chhattisgarh	Private	250	2008-09
5.	Mundra STPP, Adani, Gujarat	Private	2X660	2011-12
				2011-12
6.	Mundra TPP, Adani Ph-1, Gujarat	Private	2X330	2009-10
				2009-10
7.	Mundra TPP, Adani Ph-2, Gujarat	Private	2X330	2010-11
				2010-11
8.	Sugen CCPP (Akhakhol), Gujarat	Private	3X376	2008-09
				2008-09
				2008-09
9.	Nagarjuna Power Project, Karnataka	Private	2X507.5	2009-10
				2010-11
10.	Toranagallu TPP, Karnataka	Private	2X300	2008-09
				2008-09
11.	JSW Ratnagiri TPP, Maharashtra	Private	4X300	2010-11
				2010-11
				2010-11
				2010-11
12.	Trombay TPS Extn, Maharashtra	Private	250	2008-09
13.	Sterlite TPP, Orissa	Private	600	2009-10
14.	Jallipa-Kapurdi TPP, Rajasthan	Private	8X135	2009-10
				2009-10
				2009-10
				2009-10
				2009-10
				2009-10
				2009-10
				2009-10
15.	Anpara-C, Uttar Pradesh	Private	2X500	2010-11
				2010-11
16.	Rosa TPP, Uttar Pradesh	Private	2X300	2009-10
				2010-11

1	2	3	4	5
17.	Budge Budge III, West Bengal	Private	250	2009-10
B.	PROJECTS TO BE COMMISSIONED IN 12TH PLAN			
1.	Mundra Ultra Mega TPP, Gujarat	Private	5X800	2012-13
				2012-13
				2013-14
				2013-14
				2014-15
2.	Sterlite TPP, Orissa	Private	3X600	2012-13
				2012-13
				2013-14

B. Hydro Electric Projects under construction

Sl. No.	Name of Project/Executing Agency/State	Sector	Capacity in MW	Year
1	2	3	4	5
A.	**Likely to give benefits in 11th Plan**			
1.	Parbati St.-II/NHPC/Himachal Pradesh	Central	4x200=800	2011-12
2.	Chamera St.-III/NHPC/Himachal Pradesh	Central	3x77=231	2010-11
3.	Parbati St-III/NHPC/Himachal Pradesh	Central	4x130=520	2010-11
4.	Kol Dam/NTPC/Himachal Pradesh	Central	4x200=800	2009-10
5.	Rampur/SJVNL/Himachal Pradesh	Central	6x68.67=412	2011-12
6.	Uri-II/NHPC/Jammu & Kashmir	Central	4x60=240	2010-11
7.	Sewa-II/NHPC/Jammu & Kashmir	Central	3x40=120	2009-10
8.	Koteshwar/THDC/Uttarakhand	Central	4x100=400	2010-11
9.	Loharinag Pala/NTPC/Uttarakhand	Central	4x150=600	2011-12
10.	Tapovan Vishnugad/NTPC/Uttarakhand	Central	4x130=520	2011-12
11.	Teesta Low Dam-III/NHPC/West Bengal	Central	4x33=132	2009-10
12.	Teesta Low Dam-IV/NHPC/West Bengal	Central	4x40=160	2010-11
13.	Subansiri Lower/NHPC/Arunachal Pradesh	Central	8x250=2000	2011-12
14.	Kameng/NEEPCO/Arunachal Pradesh	Central	4x150=600	2011-12
15.	Uhl-III/HPJVVNL/Himachal Pradesh	State	3x33.3=100	2010-11
16.	Sawara Kuddu/PVC/Himachal Pradesh	State	3x36.67=110	2011-12
17.	Baglihar/JKPDC/Jammu & Kashmir	State	3x150=450	2008-09
18.	Ghatghar/WRD/Maharashtra	State	2x125=250	2008-09

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1	2	3	4	5
19.	Priyadarshini Jurala/APGENCO/Andhra Pradesh	State	5x39=195	2008-09 (3x39) 2009-10 (2x39)
20.	Nagarjuna Sagar TR/APGENCO/Andhra Pradesh	State	2x25=50	2009-10
21.	Lower Jurala/APGENCO/Andhra Pradesh	State	6x40-240	2011-12
22.	Kuttiyadi Adl. Extn./KSEB/Kerala	State	2x50-100	2008-09 (50) 2009-10 (50)
23.	Pallivasal/KSEB/Kerala	State	3x20=60	2010-11
24.	Varahi Ext/KPCL/Karnataka	State	2x115=230	2008-09
25.	Bhawani Barrage-II/TNEB/Tamil Nadu	State	2x15=30	2010-11
26.	Bhawani Barrage-III/TNEB/Tamil Nadu	State	2x15=30	2009-10
27.	Myntdu-Leishka St-I/MeSEB/Meghalaya	State	2x42=84	2009-10
28.	New Umtru/MeSEB/Meghalaya	State	2x20=40	2011-12
29.	Allain Duhangan/ADHPL/Himachal Pradesh	Private	2x96=192	2009-10
30.	Karcham Wangtoo/JPKHCL/Himachal Pradesh	Private	4x250=1000	2011-12
31.	Budhil/LANCO/Himachal Pradesh	Private	2x35=70	2009-10
32.	Malana-II/Everest Planning Commission/ Himachal Pradesh	Private	2x50=100	2009-10
33.	Sorang/Sorang PC/Himachal Pradesh	Private	2x50=100	2011-12
34.	Shrinagar/GVKIND/Uttaranchal	Private	4x82.5=330	2011-12
35.	Maheshwar/SMHPCL/Madhya Pradesh	Private	10x40=400	2011-12
36.	Chujachen/GATI/Sikkim	Private	2x49.5=99	2009-10
37.	Teesta III/Teesta URJA/Sikkim	Private	6x200=1200	2011-12
SUB-TOTAL: (A)			12395	
B.	**Additional Projects likely to come in 11th Plan**			
1.	Nimoo Bazgo/NHPC/Jammu & Kashmir	Central	3x15=45	2011-12
2.	Chutak/NHPC/Jammu & Kashmir	Central	4x11=44	2011-12
3.	Teesta III/Teesta URJA/Sikkim	Private	6x200=1200	2011-12
4.	Pulichintala/APGENCO/Andhra Pradesh	State	4x30=120	2011-12
SUB TOTAL (B)			809	
C.	**Likely to give benefits beyond 11th Plan**			
1.	Teesta-VI/LANCO/Sikkim	Private	4x125=500	2012-13

1	2	3	4	5
2.	Rangit IV/Jal Power Corp. Ltd.,/Sikkim	Private	3x40=120	2012-13
SUB-TOTAL (C)			620	
	GRAND TOTAL (A+B+C)		**13824**	
C.	**Nuclear projects under construction**			
	A. Likely to give benefits in 11th Plan			
1.	Kaiga APP/Karnataka	Central	220	2008-09
2.	Rajasthan APP/Rajasthan	Central	2x220	2008-09
				2008-09
3.	Kalpakkam APP (PFBR)/Tamil Nadu	Central	500	2010-11
4.	Kudankulam APP/Tamil Nadu	Central	2x1000	2008-09
				2009-10

Statement II

Details of Generation Projects which have crossed the targeted period of construction.

Sl. No.	Name of project Hydro Central Sector	Capacity Slipping (MW)
1	2	3
1.	Sewa-II (NHPC) J&K	120
2.	Teesta Low Dam-III (NHPC) West Bengal	132
3.	Teesta LD-IV (NHPC), West Bengal	160
4.	Koteshwar (THPC) Uttaranchal	400
5.	Rampur (SJVNL) Joint Venture, Himachal Pradesh	412
	State Sector	
6.	Baglihar, Jammu and Kashmir (J&K)	450
7.	Ghatghar PSS, Maharashtra	250
8.	Bhavani Barrage II, Tamil Nadu (TN)	30
9.	Bhavani Barrage III, TN	30
10.	Priyadarshini Jurala, Andhra Pradesh (AP)	39
11.	Myntdu Meghalaya	84
12.	Kuttiyadi Extn., Kerala	100

1	2	3
	Private Sector	
13.	Maheshwar, Madhya Pradesh	400
	TOTAL:	2607
	Thermal	
	Central Sector	
14.	Kahalgaon St-2, Ph-2, u-7, Bihar NTPC	500
15.	Sipat-2, U-5 NTPC, Chhattisgarh	500
16.	Chandrapura TPS Extn.U-7 & 8 DVC Jharkhand	500
	State Sector	
17.	Kutch Lignite TPS Extn. U-4, Gujarat	75
18.	Amarkantak TPS Extension U-5, MP	210
19.	Guru Har Govind TPS-II U-4 Punjab	250
20.	Valuthur CCPP Extn. GT+ST, Tamil Nadu	92.2
21.	Bakreshwar TPSU-5, West Bengal	210
22.	Sagardighi TPP U-2 West Bengal	300
	Private Sector	
23.	Gautami CCPP, Andhra Pradesh	464
24.	Konaseema CCPP, Andhra Pradesh	445
25.	O.P. Jindal STPP, Chhattishgarh	250
26.	Sugen CCPP (Akhakhol) Gujarat	1128
	Nuclear-Central Sector	
27.	Kaiga APP Unit 4 Karnataka	220
28.	Rajasthan APP, U-5 & 6 Rajasthan	2X220

Rise in prices of Naphtha

3666. SHRI K. CHANDRAN PILLAI: Will the Minister of POWER be pleased to state:

(a) whether it is a fact that there is a steep rise in the prices of Naphtha;

(b) if so, whether this increase has raised the cost of power generation in Naphtha based units;

(c) if so, the details thereof;